



Geotechnical Engineering

We are proud to have the largest and most experienced Geotechnical Engineering team in Northwestern Ontario. Our team has extensive capabilities and experience in modeling and analyzing routine to complex geotechnical problems. Our team includes Geotechnical Engineers, Professional Geologists, Materials and Pavement Engineers, Laboratory Services, and Civil / Structural Engineers. We have fully equipped drill rigs and specialized field and laboratory testing equipment to handle almost any ground condition and/or project requirement.

EXPERTISE



- Detailed Geotechnical Investigations
- Pavement Design
- Terrain Analyses
- Desktop Studies
- Geothermal Modeling
- Seepage Analyses
- Finite Element Stress Analysis
- Bearing Capacity
- Forensic Studies
- Embankment Design
- Earth Dam Design
- Tailings
- Soft Clays
- Aggregate Studies
- Friction Piles
- End Bearing Piles
- Rock Socketted Piles
- Micro Piles
- Laterally Loaded Pile Analysis
- Breakwaters
- Revetments
- Field Investigations
- Monitoring Plans
- Inspections
- Pit and Quarry Licensing
- Mat Foundations
- Compensated Raft Foundations
- Shallow Footings
- Insulated Foundations
- Frost Protection
- Design with Light Weight Fills
- Slope Stabilization
- Ground Improvements
- Site Preloads
- Lagoon Berms / Dykes
- Pavement Management
- Comparative Site Studies
- Settlement Performance Analysis
- Liquefaction Assessments
- Instrumentation
- Earth Retaining Systems
- Laboratory Testing
- Frost Heave Assessment
- Construction Monitoring
- Vibration Monitoring
- Construction Staging
- Water Treatment Plants / Reservoirs
- Clarifiers / Aeration Basins
- Anchors
- Sheet Piling
- Excavation Assessments

*From Testing Through to Consultation,
We Are Your "Down to Earth" Consultants*

www.tbte.ca